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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 11/26/2008

Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin NI 08830 EXAMINER

CASAREGOLA, LOUIS J

ART UNIT PAPER NUMBER

3741 DATE MAILED: 11/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,972	09/26/2005	Joachim-Rene Nuding	2003P0462WOUS	1663

TITLE OF INVENTION: TEMPERATURE MEASURING DEVICE AND REGULATION OF THE TEMPERATURE OF HOT GAS OF A GAS TURBINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
7590 11/26/2008 Siemens Corporation Intellectual Property Department 170 Wood Avenue South				I Si ac tri	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPIO (517) 273-2888, on the date indicated below the USPIO (517) 273-2888.			
Iselin, NJ 08830								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO)R	ATTO	ORNEY DOCKET NO.	CONFIRMATION NO.
10/550,972	09/26/2005			Joachim-Rene Nudin	g	20	003P0462WOUS	1663
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nonprovisional	NO		\$1510	\$300	\$0		\$1810	02/26/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	╛			
CASAREGOL			374I	060-039300				
"Fee Address" indi- PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ordence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA cass an assignee is ident in 37 CFR 3.11. Comp	nge of G Indica ed. Use	Correspondence ution form of a Customer E PRINTED ON T		to 3 registered pat titvely, igle firm (having as r agent) and the na itomeys or agents. I be printed. http://pex.org/doi/10.1007/ patent. If an assignation assignment.	a memb mes of u f no nan	per a 2	ocument has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual 🔲	Corporat	ion or other private gro	oup entity Government
Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				D. Payment of Fee(s): (PI A check is enclosed Payment by credit of The Director is here overpayment, to De	L card. Form PTO-20 by authorized to ch	38 is atta	ached. required fee(s), any de	
	SMALL ENTITY state	is. See 3	37 CFR 1.27.	b. Applicant is no le				
NOTE: The Issue Fee and interest as shown by the re	l Publication Fee (if req ecords of the United Sta	uired) v tes Pate	vill not be accepted ent and Trademark	from anyone other that Office.	n the applicant; a re	gistered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration			
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC (3-1450.	FR 1.3 U.S.C. USPT rden, sh	11. The informatic 122 and 37 CFR O. Time will vary lould be sent to the SEND FEES OR O	on is required to obtain on 1.14. This collection is depending upon the incommendation of COMPLETED FORMS	r retain a benefit by estimated to take 12 fividual case. Any icer, U.S. Patent an TO THIS ADDRE	the pub minute commen d Trader SS. SEN	lic which is to file (and s to complete, including ts on the amount of times ark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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75	90 11/26/2008	EXAMINER		
Siemens Corporation			CASAREGOLA, LOUIS J	
Intellectual Property Department			ART UNIT	PAPER NUMBER
170 Wood Avenue South Iselin NI 08830			3741	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 503 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 503 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
10/550,972	NUDING ET AL.		
Examiner	Art Unit		
Louis I Casaragala	37/11		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to applicants' paper of 9/15/08.
- The allowed claim(s) is/are 15,18,29-32.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) 🔯 All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. \(\overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date 9/12/08
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

Application/Control Number: 10/550,972

Art Unit: 3741

Reasons For Allowance

The claimed invention in this case is a gas turbine engine which comprises apparatus for injecting a liquid (water) into air entering the engine's compressor. The claimed engine further comprises a fuel control unit having input parameters that include a first temperature measured upstream of the liquid injection apparatus. humidity measured upstream of the liquid injection apparatus, and a second temperature measured at the outlet of the turbine. Turbine engines with a similar combination of features are found in the prior art, as shown for example by the Kataoko et al Patent cited in the previous office action. Neither Katako nor any of the other of references of record, however, show or fairly suggest a turbine engine with the above listed combination of features, and wherein, the control unit has all of the further limitations now recited in the amended claims (see claim 15, lines 20-25). These limitations require that that the fuel control be configured to: determine a corrected value of the measured turbine outlet temperature as a function of compressor inlet temperature, compare the corrected turbine outlet temperature to a desired value of corrected turbine outlet temperature, and use the result of the comparison to produce a fuel control output. This is essentially a closed loop or feedback type fuel control based on corrected turbine outlet temperature, and the control systems in the cited references simply do not operate in this manner. The claimed invention is therefore considered patentable over the prior art.

Application/Control Number: 10/550,972 Page 3

Art Unit: 3741

/Louis J. Casaregola/ Primary Examiner; A.U. 3741 571-272-4826 (M-F; 7:30-4:00) 571-273-8300 FAX November 24. 2008

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Michael Cuff, can be reached at 571-272-6778.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (foll-free).